37

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(54) KNOWLEDGE BASE STORING/SYNTHESIZING METHOD AND FUZZY CONTROL SYSTEM USING THE METHOD

(57) Abstract

PURPOSE: To use instantaneously, properly plural knowledge bases basing on the state of a controlled system by extracting a difference element between a standard knowledge base and the knowledge base derived from the standard knowledge base and by storing the difference element making it relate to one of both knowledge bases.

CONSTITUTION: A difference information extracting part 13 successively compares the contents 11 of a standard knowledge base with the contents 12 of a knowledge base derived from the standard one that are similar to the contents 11. Thus, the part 13 extracts the different parts between both contents 11 and 12. When a label 1C of a membership function 1 and the contents of a rule 3 are changed, the part 13 detects these changes and outputs them as a difference knowledge base 14. The contents 11 and 12 and the contents of the base 14 are related with each other and stored in a knowledge base storing/ controlling device. These knowledge bases are synthesized together when the contents of the

difference knowledge base function are replaced with the corresponding part of the standard knowledge base.

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-1-